

**Notice of Allowability****Application No.**

10/699,294

**Applicant(s)**

ANSCHUTZ ET AL.

**Examiner**

MICHAEL C. LAI

**Art Unit**

2457

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 10/8/2010.
2. ☒ The allowed claim(s) is/are 11-14, 16-28 and 30-33.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some\* c) ☐ None of the:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  
1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.  
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.  
**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 12/13/2010.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

/YVES DALENCOURT/  
Primary Examiner, Art Unit 2457

### DETAILED ACTION

This office action is responsive to amendment filed on 10/08/2010.

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Scott P. Zimmerman on 12/13/2010.

The application has been amended as follows:

- Claims 11, 12, 16-19, 21-25, 28, and 30-33 have been amended as follows:

11. A method for the management of network topology and bandwidth comprising:

determining a source of data **signals** for communication to a termination point having a predetermined operational signal frequency;

separating telephony signals from digital subscriber line signals;

routing the telephony signals to an input of a frequency demultiplexer;

sending the telephony signals from an output of the frequency demultiplexer to an input of a frequency crossbar that bridges inputs to different transceivers and to different telephony ports;

bridging the output of the frequency demultiplexer in the frequency crossbar to one of the telephony ports based on **presence of a frequency** of voice signals in the telephony signals;

routing the digital subscriber line signals to the input of the frequency demultiplexer;

sending the digital subscriber line signals from another output of the frequency demultiplexer to another input of the frequency crossbar;

bridging the another output of the frequency demultiplexer in the frequency crossbar to another telephony port based on ~~frequencies a frequency~~ of the digital subscriber line signals; and

selecting an Ethernet output port and bridging the digital subscriber line signals onto a path through the frequency cross bar that connects to the Ethernet output port.

12. The method as recited in claim 11, further comprising routing the data ~~signals~~ using addressing information.

16. An apparatus for the management of network topology and bandwidth comprising:

~~a processor executing code stored in memory that causes the processor to~~

~~an input module having ports to~~ receive network couplers from voice and data networks;

~~software having at least one instruction set for execution to~~ determine source and destination points of voice signals and data ~~signals~~ which are communicated across the apparatus; ~~[[ ]] the software causing the apparatus to [[ ]]~~

receive telephony signals and digital subscriber line signals at an input;  
separate the telephony signals from the digital subscriber line signals;  
route the telephony signals to an input of a frequency demultiplexer;  
send the telephony signals from an output of the frequency demultiplexer to a first input of a frequency crossbar that bridges inputs to different transceivers and to different telephony ports;

bridge the first input of the frequency crossbar to one of the telephony ports based on ~~frequencies a frequency~~ of the telephony signals;

route the digital subscriber line signals to the input of the frequency demultiplexer;

send the digital subscriber line signals from another output of the frequency demultiplexer to a second input of the frequency crossbar;

bridge the second input of the frequency crossbar to another telephony port based on ~~frequency~~ ~~a frequency~~ of the digital subscriber line signals; and

select an Ethernet output port and bridging the digital subscriber line signals onto a path through the frequency cross bar that connects to the Ethernet output port.

17. The apparatus as recited in claim 16, ~~wherein the code when executed further comprises~~  
~~causes the processor to configure the apparatus to~~

~~a computing application interface, the computing application interface for use to~~  
~~communicate with at least one computing application for use in configuring the~~  
~~apparatus.~~

18. The apparatus as recited in claim 17, wherein the ~~code when executed further causes the~~  
~~processor to access computing application comprises~~ a Web browser interface.

19. The apparatus as recited in claim 16, ~~wherein the code when executed~~ further ~~causes the~~  
~~processor to interface with comprising~~ multiple input ports.

21. The apparatus as recited in claim 16, wherein the ~~code when executed further causes the~~  
~~processor to software select~~ a network adapter comprising ~~at least one any~~ of an  
home phone networking alliance adapter, coaxial network adapter, an Ethernet network  
adapter, wireless network adapter, ~~a telephony adapter, plain old telephone system~~  
~~adapter~~ and a power line network adapter.

22. A method for managing a network control device, the method comprising:

accessing a graphical user interface having a topology management control and an application services gateway control;

activating the topology management control to execute ~~one or more~~ instructions to configure a network management device;

activating the application services gateway control to execute ~~one or more~~ instructions to configure the network management device to operate with services provided by a telephone services provider;

determining a source of data ~~signals~~ for communication to a termination point having a predetermined operational signal frequency;

separating telephony signals from digital subscriber line signals using a frequency demultiplexer;

sending the telephony signals from an output of the frequency demultiplexer to an input of a frequency crossbar that bridges inputs to different transceivers and to different telephony ports;

bridging the output of the frequency demultiplexer in the frequency crossbar to one of the telephony ports based on ~~identifies a frequency~~ of the voice signals;

sending the digital subscriber line signals from another output of the frequency demultiplexer to another input of the frequency crossbar;

bridging the another output of the frequency demultiplexer in the frequency crossbar to another telephony port based on the ~~identifies frequency~~ of the digital subscriber line signals; and

receiving Ethernet signals at an Ethernet port;

selecting a different one of the telephony ports as a destination for the Ethernet signals;

selecting a transceiver associated with the different one of the telephony ports;

bridging the transceiver to the different one of the telephony ports in the frequency crossbar; and

routing the Ethernet signals from the transceiver, into the frequency crossbar, and to the different one of the telephony ports.

23. The method of claim 22, wherein activating the topology management control to execute ~~one or more~~ instructions to configure a network management device comprises selecting configuration information including ~~at least one one or more~~ of network addressing information, encryption information and network/bandwidth topology information.
24. The method of claim 22, wherein activating the application services gateway control to execute ~~one or more~~ instructions to configure the network management device comprises selecting services comprising ~~at least one one or more~~ of video on demand, music on demand, remote security applications and video conferencing.
25. The method of claim 22, wherein accessing ~~all the~~ graphical user interface comprises navigating controls of the network management device using a computer browser application.
28. A non-transitory computer-readable medium having computer-executable instructions for performing a method for managing a network control device, the method comprising:
- accessing a graphical user interface having a topology management control and an application services gateway control;
  - activating the topology management control to execute ~~one or more~~ instructions to configure a network management device;
  - activating the application services gateway control to execute ~~one or more~~ instructions to configure the network management device to operate with services provided by a telephone services provider;
  - determining a source of data ~~signals~~ for communication to a termination point having a predetermined operational signal frequency;
  - separating telephony signals from digital subscriber line signals using a frequency demultiplexer;

sending the telephony signals from an output of the frequency demultiplexer to a first input of a frequency crossbar that bridges inputs to different transceivers and to different telephony ports;

bridging the first input of the frequency crossbar to one of the telephony ports based on ~~frequencies & frequencies~~ of the telephony signals;

sending the digital subscriber line signals to a second input of the frequency crossbar;

bridging the second input of the frequency crossbar to another telephony port based on the ~~frequencies frequency~~ of the digital subscriber line signals;

selecting an Ethernet output port and bridging the digital subscriber line signals onto a path through the frequency cross bar that connects to the Ethernet output port.

30. The ~~non-transitory~~ computer-readable medium of claim 28, wherein activating the application services gateway control to execute ~~one or more~~ instructions to configure the network management device comprises selecting services comprising ~~at least one one of~~ ~~here~~ of video on demand, music on demand, remote security applications and video conferencing.
31. The ~~non-transitory~~ computer-readable medium of claim 28, wherein accessing ~~[(a)] the~~ graphical user interface comprises navigating controls of the network management device using a computer browser application.
32. The ~~non-transitory~~ computer-readable medium of claim 28, wherein activating the topology management control further comprises manipulating controls for configuring one of a home network and a small office network.
33. The ~~non-transitory~~ computer-readable medium of claim 28, further comprising selecting a network adapter from ~~an IPNA at least one of a home phone networking alliance~~ adapter, a coaxial network adapter, an Ethernet network adapter, a wireless network adapter, a ~~POTS telephony~~ adapter, and a power line network adapter.

**Allowable Subject Matter**

Claims 11-14, 16-28, and 30-33 are allowed based on applicant's

Amendments/Arguments filed on 10/8/2010 and examiner's Amendment filed on 12/13/2010.

**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Lai whose telephone number is (571) 270-3236. The examiner can normally be reached on M-F 8:30 - 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael C. Lai  
13DEC2010

/YVES DALENCOURT/  
Primary Examiner, Art Unit 2457

